

MLP RO 300

TECHNICAL DATA

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| TD083GB-02 | 08-07-09 | LR/LJA |
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Combined high-pressure pump station and reverse osmosis system with a capacity of 265 l/h.

The combined system is developed by ML System with focus on reliable and hygienically corrects humidification solutions.

The system is fitted on a frame and all components are assembled, tested, and ready to use.



MLP RO 300 is equipped with the following components:

Standard:

- PLC control for up to 4 departments with Integrated start-up automatics
- Reservoir tank closed with 0.2 µm breathing filter
- Overflow protection
- Stainless high-pressure pump
- High-pressure gauge
- Type approved water meter for produced permeate
- 5 µm filtration
- UV system for sterilization of water
- Thermostat and pressure switch for protection of pump
- Operational hour meter
- Safety circuit for max hygostat

Options:

- Active carbon filter
- Supply to moistening water mixer
- Conductivity meter/alarm.

Benefits:

- Compact unit
Based on water hydraulics i.e. stainless and oil free
- no oil change.
- Delivered on frame easy to place.
- Fully assembled and tested.
- All components exposed to water are made of corrosion resistant material.
- The hoses are stainless steel braided or high-pressure hoses.

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Specifications:

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|------------------------------|---|
| High-pressure pump: | Piston pump PAH 2 with 5 pistons |
| Working pressure: | 30-70 bar (435-1015 PSI) |
| Capacity: | 30-265 l/h at 50Hz + 20 % at 60Hz |
| Capacity, RO water*: | 275 l/h at 15°C, TDS<625 mg/l |
| Permeate quality: | 5 < EC < 30 µS/cm. |
| Permeate/Concentrate ratio: | approx. 50 / 50 % |
| Reservoir tank: | 50 l |
| Size (LxWxH): | 860 x 700 x 1600 mm |
| Weight: | 130 kg |
| Sound pressure level: | < 75 dB |
| Power supply: | 3 x 400 VAC+GND+N, 50Hz, 2,5KW, 16A or 3 x 230 VAC+GND+N, 50Hz, 2,6KW, 16A or 3 x 208 VAC+GND+N, 60Hz, 2,7KW, 16A |
| Dissolved salt removal: | > 95 % |
| Water connection, tap water: | 3/4" RG |
| Water connection, RO-water: | 3/4" RG |

* Capacity may vary depending on the quality of the tap water and decreases by approx. 3 % per decrease in °C of the temperature of the water.

Preconditions:

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|---------------------|---|
| Water supply: | Drinking Water Quality, 2.5-7 bar @550 l/h |
| Hardness: | max. 20 °dH |
| Conductivity: | 250-1000 µS/cm |
| Free chlorine: | max. 0.1 mg/l |
| TDS: | max. 625 mg/l |
| Silt index: | max. 3.0 |
| KMnO ₄ : | max. 10 mg/l |
| Fe: | max. 0.2 mg/l |
| Mn: | max. 0.05 mg/l |
| NTU: | max. 1.0 |
| Temperature: | max. 15 °C |